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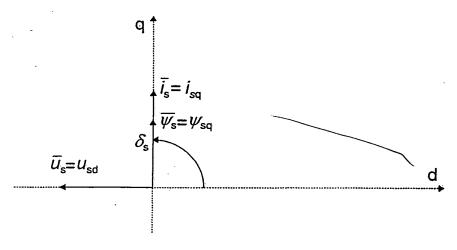
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[Continued on next page]

METHOD FOR DEFINING QUADRATURE-AXIS MAGNETIZING INDUCTANCE OF SYNCHRONOUS (54) Title: **MACHINE**



(57) Abstract: Method for defining quadrature-axis magnetizing inductance of a synchronous machine. the synchronous machine being supplied by an inverter. The method comprises steps, wherein the synchronous machine is started without load or with reduced load, the rotor current of the synchronous machine is kept substantially at zero, the synchronous machine is accelerated to initial angular velocity of measurement, the load angle (d_s) of the synchronous machine is guided substantially to 90 degrees, the stator voltage (u_s) , the stator current (i_s) and

the electrical angular velocity (?) of the synchronous machine is defined and the quadrature-axis magnetizing inductance of the synchronous machine (l_{mo}) is defined on the basis of the stator voltage (u_i) , the stator current (i,j) and the electrical angular velocity (?) of the machine.

